BRUHAT BANGLORE MAHANAGARA PALIKE

YALAHANKA ZONE, BANGLORE

BAR CHART

RA 1ST AND PART BILL

Name of work: Comprehensive Development works in ward No. 03 Attur

Sl No	Description of item	Unit	Quantities Executed	Progress Chart				
				0-20 %	20 - 40%	40-60%	60-80%	80-100%
1	2	3	4	5	6	7	8	9
1	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)	Cum	0.00					
2	KSRRB 400-2. Provididng, laying, spreading and compacting specified graded, gravel or any other course materail 60% and crushed stone aggreagtes of granite/ trap/ basalt 40% in sub-base course, close grading-I including premixing the materail at OMC in mechanical mixer (Pug mill), carriage of mixed material, spreading in uniform layers with motor grader on a prepared base and compacting with power roller to achieve the desired including all materials, labour, HOM lighting, guarding, barricading and maintenace of diversion complete as per specifications. MORTH Chapter-20 Pg-153	Cum	0.00					
3	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)	Sqm	0.00					
4	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)	Cum	875.60					

AARTNAS BANGALORE

Scanned by TapScanner

5	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)	Cum	0.00	
6	Constructing un-reinforced,plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum,fine aggregates at 0.46 cum,coarse and fine aggregate conforming to IS:383-2016,with Superplastizer at 3 lts conforming to IS 9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design,laid in approved fixed side form work (sreel channel,layning and fixing of 125 micron thick polythene fim, wedges, steel plates including levelling the form work as per drawing). & Speration the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a construction and longitudinal joints,including groove cutting charges,joint filler,separation membrane of impermiable plastic sheet of 125 micron,sealant primer, joint sealant, admixtures as approved, curring compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials,labour,hire charges of machineries , all lead & lift charges etc., complete as per specifications.with OPC AT 320 kg/cum and fly ash 40 kg/cum conforming to IS:3812, coarse aggregate 0.69cum,fine aggregate 0.46cum. Item No.-	Cum	656.14	
7	KSRRB 800 .Providing and erecting direction and place identification retro -reflected sign as per IRC:67 made of high intensity grade sheeting ,2mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75*75*6 mm,2Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45*45*60 cm,60cm below ground level as per	Sqm	0.00	
8	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floting disc including cost of generator,HOM of machinery , screed Vibratory ,power floater,blade and disc etc,with all lead and lift. Item No. 22.7 .P.No.-176	Sqm	4389.36	

AARIN ASSOCIATES BANGALORE

Scanned by TapScanner

9	KSRRB 200-13. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / Chapter 2 (P-138 , I.no 18.13).	Sqm	0.55	
10	KSRRB M300-53. Construction of embankment with approved materials Gravel/Murrum with all lift and leads, transportation to site,Spreading, grading to required slope and compacting to meet requirement of Table 300-2 complete asper specifications. Which includes cost of Gravel/Murrum , watering charges & compaction by vibratory roller to 95% of modified proctors density) MORTH Specification No.305 , Item No.19.60 Page No. - 147	Cum	1313.65	
11	KSRRB M600-3-Providing and Constructing dry lean concrete mix CC 1:4:8 base with OPC @180kgs ,25mm and down size graded granite metal coarse aggregate at 0.85 cum and fine aggregates @0.57 cum over a prepared sub-base ,coarse and fine aggregate confirming to IS:383-2016,aggregate cement ratio not to eceed 15:1,Aggregate content to be be less than 10Mpa at 7 days , mixed in a batching plant,transported to site ,laid with a paver,compacting with 8-10 tonnes vibratory rolle,finishing and curing complete as per specifications. Clause 601 of MORTH V Revision and IS 456 Table -5, Item No.-22.3,Page No.-175	Cum	1374.49	
12	KSRB 14.6: Providing and laying heavy duty cobble stones interlock pavers,using cement and course sand for manufacture of blocks of approved size , shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints,final compaction of paver surface joints into its final levevl,including cost of materials,labour and HOM complete as per specifications. Specification No. KBS ,14.6 KSRB 14.6-1 heavy duty cobble stones 60 mm thick Sqm Rs 1,053.00 Pg No.-103	Cum	4789.00	
			Total	

INDEX:
1St And Part Bill

Assistant Engineer

Assistant Executive Engineer
BBMP, Project Division.
Yelahanka

AARTH ASSOCIATES BANGALORE

Scanned by TapScanner